

FIG. 2

### READ REQUEST FORMAT

Offset

Byte 0	Slave Addr (7 Bytes)	0 LSBit
Byte 1	MSBit (1)	Type
Byte 2	Command ID (LSB)	
Byte 3	Command ID (MSB)	
Byte 4	Read Request Length (N)	
Byte 5	Check Sum	

*FIG. 3A*

### WRITE REQUEST FORMAT

Offset

Byte 0	Slave Addr (7 Bytes)	0 LSBit
Byte 1	MSBit (0)	Type
Byte 2	Command ID (LSB)	
Byte 3	Command ID (MSB)	
Byte 4	Write Request Length (N)	
Byte 5	Data Byte 1	
⋮	⋮	
Byte N+4	Data Byte N	
Byte N+5	Check Sum	

*FIG. 3B*

### READ RESPONSE FORMAT

Offset

Byte 0	Slave Addr (7 Bytes)	1 LSBit
Byte 1	Read Request Length (N)	
Byte 2	Data Byte 1	
⋮	⋮	
Byte N+1	Data Byte N	
Byte N+2	Status	
Byte N+3	Check Sum	
Byte N+4	Inverted Slave Addr	

*FIG. 3C*

### WRITE REQUEST FORMAT

Offset

Byte 0	Slave Addr (7 Bytes)	1 LSBit
Byte 1	Write Response Length (N)	
Byte 2	Status	
Byte 3	Check Sum	
Byte 4	Inverted Slave Addr	

*FIG. 3D*

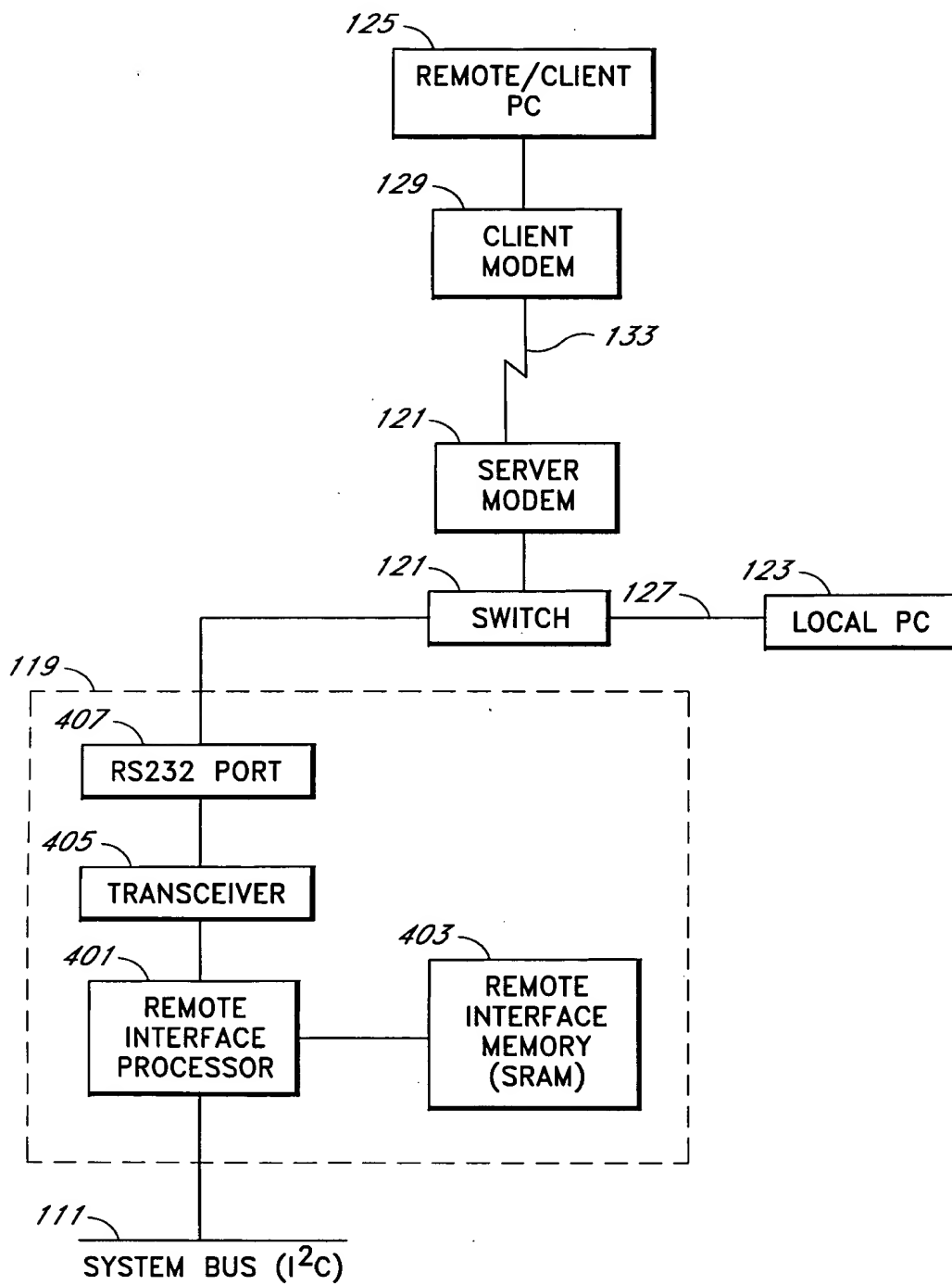


FIG. 4

2025 RELEASE UNDER E.O. 14176

## REMOTE INTERFACE SERIAL PROTOCOL MESSAGE FORMATS

Request:

SOM	Seq. #	TYPE	Data	...	Check	EOM
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*FIG. 5A*

Response

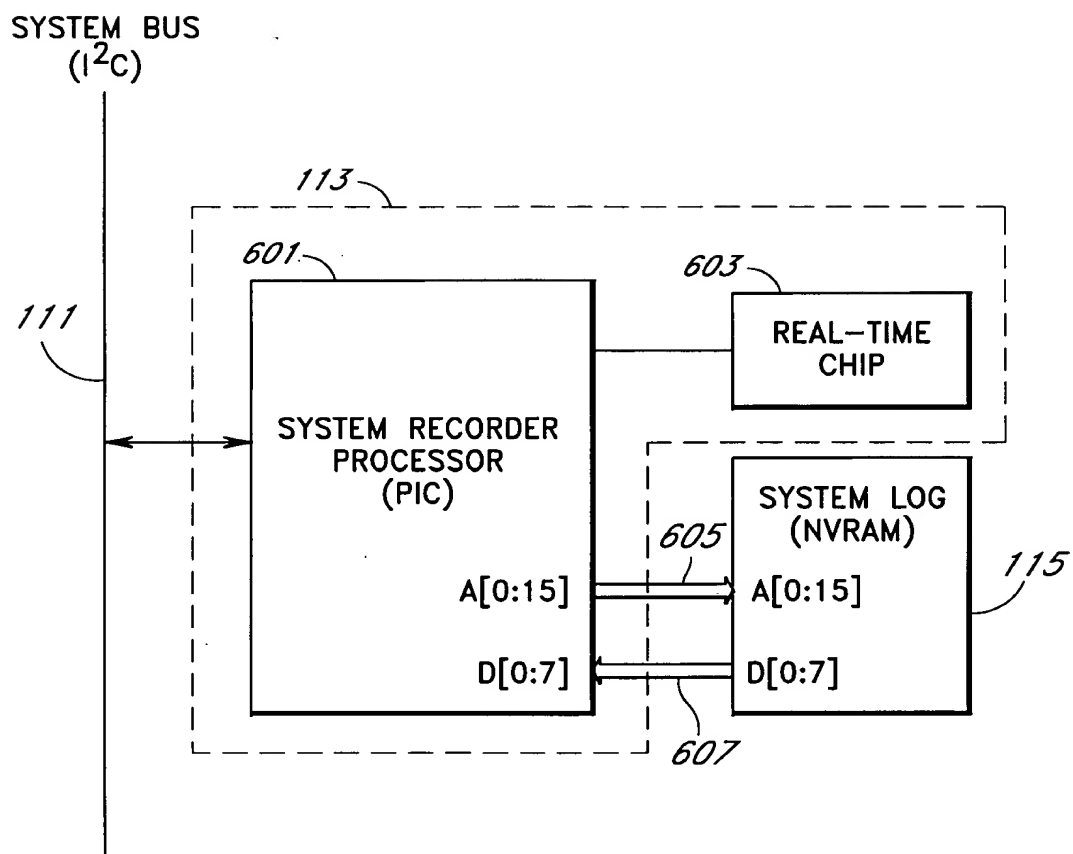
SOM	Seq. #	STATUS	Data	...	Check	EOM
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*FIG. 5B*

Event Interrupt

INT
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*FIG. 5C*



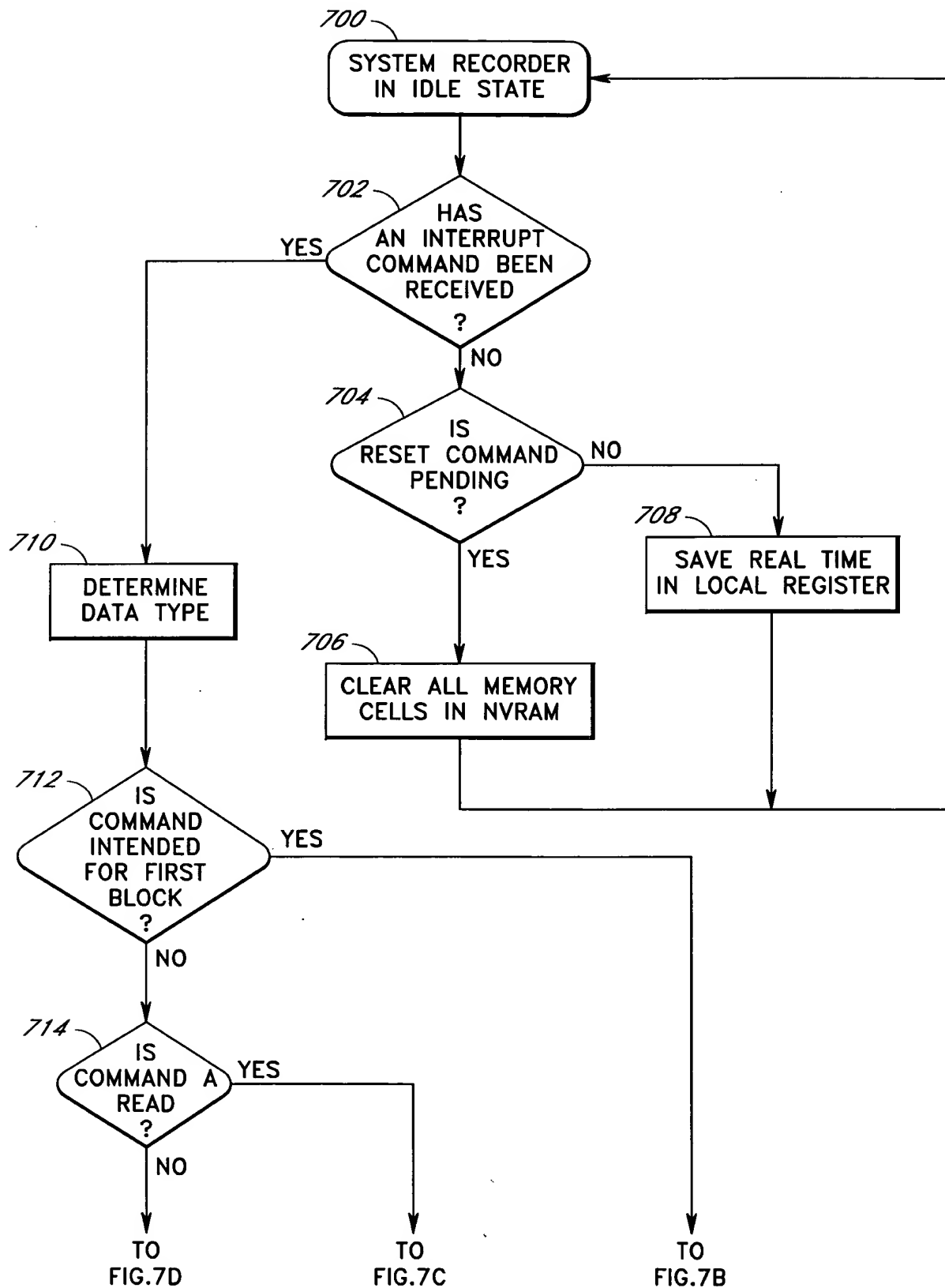


FIG. 7A

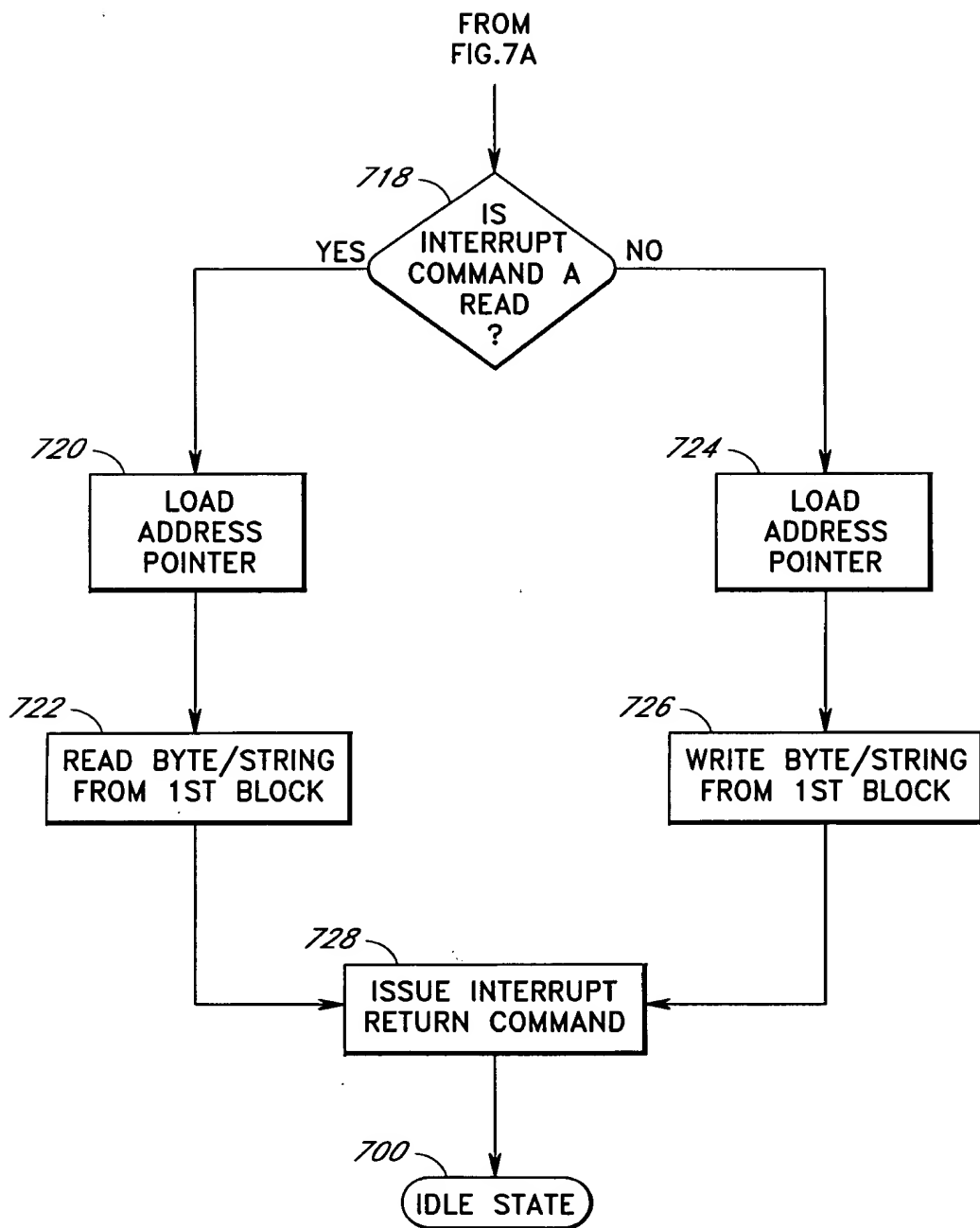


FIG. 7B

FROM  
FIG.7A

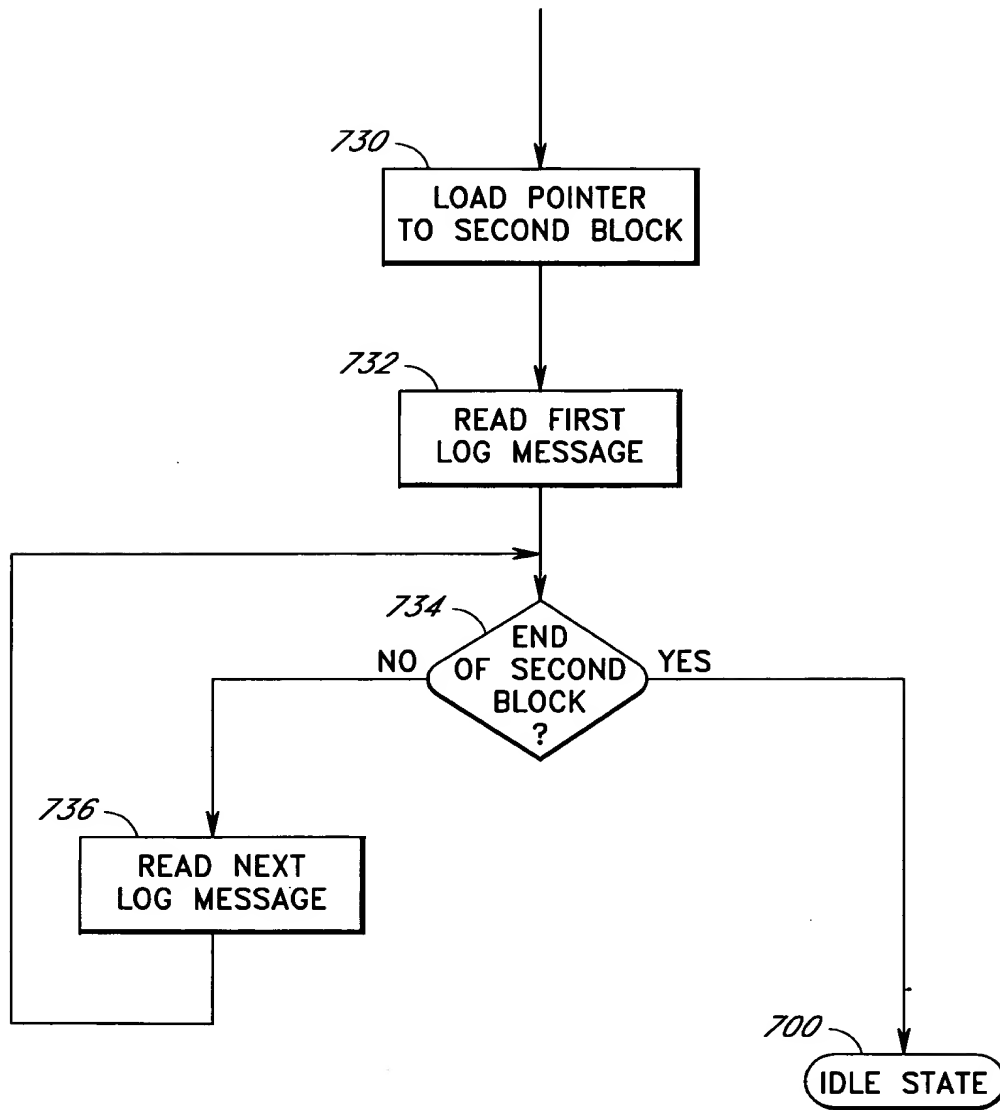


FIG.7C

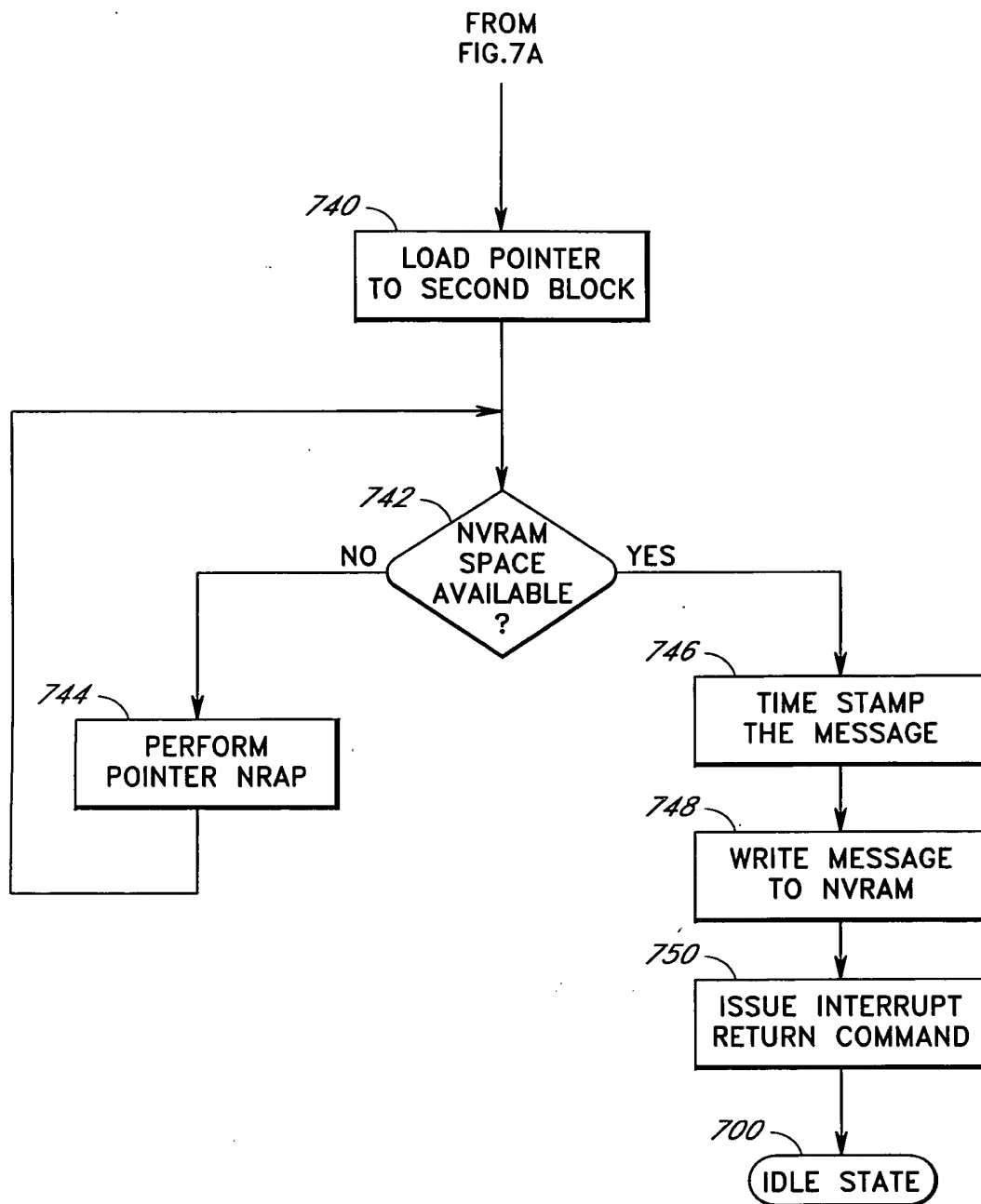


FIG. 7D

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graph TD; START([START]) --> 801[801 MICRO CONTROLLER MONITORS SERVER SYSTEM FOR FAILURES]; 801 --> 803{803 ANY FAILURES DETECTED?}; 803 -- NO --> 801; 803 -- YES --> 805[805 SEND FAILURE INFORMATION TO SYSTEM RECORDER FOR DATE AND TIME STAMP]; 805 --> 807[807 STORE FAILURE INFORMATION IN SYSTEM LOG]; 807 --> 809[809 SEND EVENT SIGNAL TO SYSTEM INTERFACE AND REMOTE INTERFACE]; 809 --> FIG8B[TO FIG.8B];
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*FIG. 8A*

FROM  
FIG.8A

811  
SEND INTERRUPT TO  
CPU/CPU DETECTS  
EVENT SIGNAL HAS  
BEEN RECEIVED BY  
SYSTEM INTERFACE

813  
CPU READS EVENTS

815  
CPU NOTIFIES SYSTEM  
OPERATOR OF THE EVENT  
AND/OR TAKES OTHER  
REMEDIAL ACTIONS

817  
HAS  
CPU DECIDED TO  
CALL OUT  
?

NO

819

END

TO  
FIG.8C

*FIG.8B*

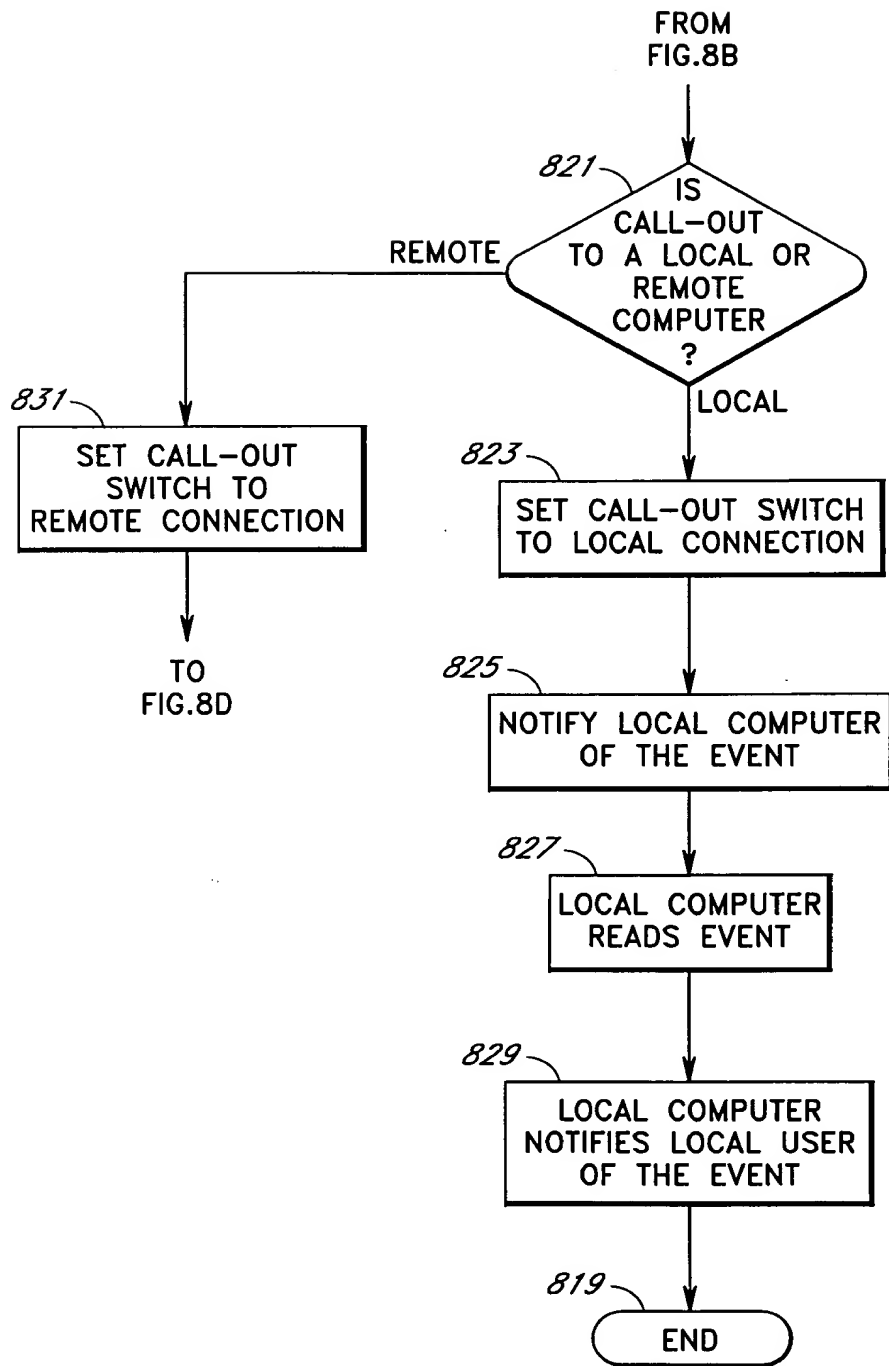


FIG.8C

1. The first part of the report, "Introduction", discusses the importance of the study and the objectives of the research. It also provides a brief overview of the methodology used in the study.

2. The second part of the report, "Literature Review", discusses the existing literature on the topic. It identifies the gaps in the literature and provides a framework for the study.

3. The third part of the report, "Methodology", describes the research design, data collection, and analysis methods. It includes a detailed description of the sample and the instruments used.

4. The fourth part of the report, "Results", presents the findings of the study. It includes a detailed description of the data and the statistical analysis results.

5. The fifth part of the report, "Discussion", discusses the implications of the findings and provides recommendations for future research. It also includes a conclusion and a list of references.

